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APPLICATION NO. 9	FILING DATE 05/04	FIRST NAMED INVENTOR NAKATANI	ATTORNEY DOCKET NO. S 356972020510
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IM22/0213

EXAMINER	
MAYES, M	
ART UNIT	PAPER NUMBER
1734	4

DATE MAILED: 02/13/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

## Office Action Summary

Application No. 09/484,899	Applicant(s) Nakatani et al.
Examiner M. Curtis Mayes	Group Art Unit 1734

Responsive to communication(s) filed on \_\_\_\_\_.

This action is FINAL.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

### Disposition of Claims

Claim(s) 15-36 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

Claim(s) 26, 27, 30-32, 35, and 36 is/are allowed.

Claim(s) 15-25, 28, 29, 33, and 34 is/are rejected.

Claim(s) \_\_\_\_\_ is/are objected to.

Claims \_\_\_\_\_ are subject to restriction or election requirement.

### Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

The proposed drawing correction, filed on \_\_\_\_\_ is  approved  disapproved.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All  Some\*  None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_.

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

### Attachment(s)

Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s). 3

Interview Summary, PTO-413

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

(1)

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

(2)

Claims 15-25, 28, 29, 33 and 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 15 claims “mounting a circuit component on a wiring pattern portion **in** a first film.”

Does Applicant mean “on a first film” since according to the embodiment of Figure 3, the component is mounted on a wiring pattern that is formed **on** a film?

Claim 17 claims “the first and second films are formed of copper foils...” but depends from Claim 15 which claims “mounting a circuit component **on a wiring pattern portion** in a first film.” In the Embodiment 2 in which the films are copper foils, there are no wiring patterns until the copper foils are processed into wiring patterns after heating step. How can the component be mounted on a wiring pattern if the wiring pattern is not yet formed? It is suggested that the method of Embodiment 2 be written as a separate independent claim including the steps of

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mounting a component on copper foil and removing portions of the copper foils to form wiring patterns after the heating step.

Claim 17, line 5 should read “after the step of heating the third sheet so as to form the fourth sheet” since the step which forms the fourth sheet is the step of heating the third sheet.

Claim 18, line 5 should read “after the step of heating the third sheet so as to form the fourth sheet” since the step which forms the fourth sheet is the step of heating the third sheet.

Claim 22 claims “wherein the step of forming the first sheet” and “the step of forming the mixture into the sheet.” Claim 15 claims the step of “processing a mixture...into a first sheet.” Claim 22 should read “the step of processing the mixture into a first sheet” or similar language since there is no claimed “step of forming the first sheet” in Claim 15.

Claim 23 claims “the step of forming the third sheet” but should read “the step of positioning and superimposing to form the third sheet” as claimed in Claim 15.

Claims 28 and 29, line 5 should read “after the step of pressing and heating to form the fifth sheet” since the step which forms the fifth sheet is the step of pressing and heating as claimed in Claim 26.

Claim 33 claims “wherein the step of forming the first sheet” and “the step of forming the mixture into the sheet.” Claim 26 claims the step of “processing a mixture...into a first sheet.” Claim 33 should read “the step of processing the mixture into a first sheet” or similar language since there is no claimed “step of forming the first sheet” in Claim 26.

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Claim 34 claims "the step of forming the third sheet" but should read "the step of positioning and superimposing to form the third sheet" as claimed in Claim 26.

*Allowable Subject Matter*

(3)

Claims 26, 27, 30-32, 35 and 36 are allowed.

(4)

Claims 15-25, 28, 29, 33 and 34 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, set forth in this Office action.

*Conclusion*

(5)

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

(6)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Curtis Mayes, whose telephone number is (703) 308-1977. The examiner can normally be reached on Monday-Friday from 6:30 AM-3:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino, can be reached on (703) 308-3853.

The Official FAX phone number for this Tech Center 1700 is (703) 305-7718.

The Unofficial Fax phone number is (703) 305-7115.

When filing a FAX in Tech Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with PTO that are not for entry into the file of the application. This will expedite processing of your papers.

The receptionist number for Tech Center 1700 is (703) 308-0661.



CURTIS MAYES  
PRIMARY EXAMINER  
Art Unit 1734  
February 9, 2001